

What is claimed is:

1. A numerical controller for controlling a machining operation on a workpiece by a tool by rotating the workpiece and moving the tool relatively to the workpiece, comprising:

designating means to designate data of a rotational position and a rotational velocity of the workpiece, and data of a position of the tool relative to the workpiece corresponding to the data of the rotational position of the workpiece; and

computing means for controlling the rotational position and the rotational velocity of the workpiece and the position of the tool relative to the workpiece based on the data designated by said designating means.

2. A numerical controller according to claim 1, wherein said computing means obtains a velocity of motion of the tool relative to the workpiece based on the data of the rotational position and the rotational velocity of the workpiece and the data of the position of the tool relative to the workpiece, and controls the position of the tool relative to the workpiece based on the obtained velocity motion of the tool.

3. A numerical controller according to claim 1, further comprising data input means for inputting the data of the rotational position and the rotational velocity of the workpiece, and the data of the position of the tool relative to the workpiece corresponding to the data of the rotational position of the workpiece.

4. A numerical controller according to claim 1, further comprising storage means for storing the data of the rotational position and the rotational velocity of the workpiece, and the data of the position of the tool relative to the workpiece corresponding to the data of the rotational position of the workpiece.

5. A numerical controller according to claim 4, wherein said computing means creates NC data based on the data stored in said storage means.

6. A numerical controller for controlling a machining operation on a workpiece by a tool by rotating the tool and moving the tool relatively to the workpiece, comprising:

designating means to designate data of a rotational position and a rotational velocity of the workpiece, and data of a position of the tool relative to the workpiece corresponding to the data of the rotational position of the workpiece; and

computing means for controlling the rotational position and the rotational velocity of the tool and the position of the tool relative to the workpiece based on the data designated by said designating means.

7. A numerical controller according to claim 6, wherein said computing means obtains a velocity of motion of the tool relative to the workpiece based on the data of the rotational position and the rotational velocity of the tool and the data of the position of the tool relative to the workpiece, and controls the position of the tool relative to the workpiece based on the obtained velocity of motion of the tool.

8. A numerical controller according to claim 6, further comprising data input means for inputting the data of the rotational velocity and the rotational position of the tool, and the data of the position of the tool relative to the workpiece corresponding to the data of the rotational position of the tool.

9. A numerical controller according to claim 6, further comprising storage means for storing the data of the rotational position and the rotational velocity of the tool, and the data of the position of the tool relative to the workpiece corresponding to the data of the rotational position of the tool.

10. A numerical controller according to claim 9, wherein said computing means creates NC data based on the data stored in said storage means.

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